

Recombinant human PKA C beta/PRKACB protein

Catalog Number: ATGP2666

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-398aa

UniProt No.

P22694

NCBI Accession No.

NP_891993

Alternative Names

Protein kinase cAMP-activated catalytic subunit beta, Protein kinase, cAMP-dependent, Beta catalytic subunit, PKACb

PRODUCT SPECIFICATION

Molecular Weight

48.6 kDa (421aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity

> 80% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

PRKACB is a member of the Ser/Thr protein kinase family and is a catalytic subunit of cAMP-dependent protein kinase. cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMP-dependent protein kinase, which transduces the signal through phosphorylation of different target proteins. The inactive kinase holoenzyme is a tetramer composed of two regulatory and two catalytic subunits. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to

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four cAMP and two free monomeric catalytic subunits. Four different regulatory subunits and three catalytic subunits have been identified in humans. Recombinant human PRKACB protein, fused to His-tag at N-terminus, was expressed in *E. coli*.

Amino acid Sequence

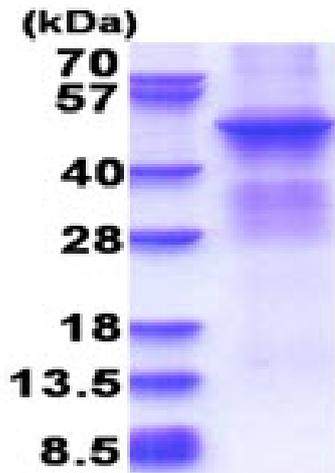
MGSSHHHHHHH SSGLVPRGSH MGSMAAYREP PCNQYTGTTT ALQKLEGFAS RLFHRHSGKT AHDQKTALEN DSLHFSEHTA
LWDRSMKEFL AKAKEDFLKK WENPTQNNAG LEDFERKKTLL GTGSFGRVML VKHKATEQYY AMKILDKQKV VKLKQIEHTL
NEKRILQAVN FPFLVRLEYA FKDNSNLYMV MEYVPGGEMF SHLRRIGRFS EPHARFYAAQ IVLTFEYLHS LDLIYRDLKP
ENLLIDHQGY IQVTDGFAK RVKGRTWTLC GTPEYLAPEI ILSKGYNKAV DWWALGVLIY EMAAGYPPFF ADQPIQIYEK
IVSGKVRFPS HFSSDLKDLL RNLLQVDLTK RFGNLKNGVS DIKTHKWFAT TDWIAIYQRK VEAPFIPKFR GSGDTSNFDD
YEEEDIRVSI TEKCAKEFGE F

General References

Wu K.-J., et al. (2002) *Oncogene*. 21:7872-7882
Lignitto L., et al. (2011) *Nat. Cell Biol.* 13:412-422

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3 μ g)